

JAPANESE

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CLAIMS DETAILED DESCRIPTION TECHNICAL  
FIELD PRIOR ART EFFECT OF THE INVENTION  
TECHNICAL PROBLEM MEANS EXAMPLE  
DESCRIPTION OF DRAWINGS DRAWINGS

[Translation done.]

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## DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

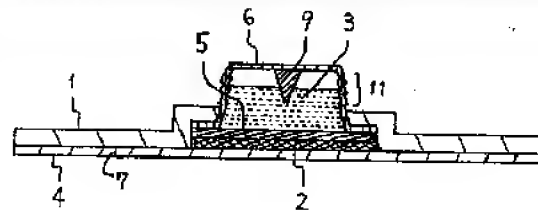
[Field of the Invention]This invention includes drugs used for Medical Science Division and others, such as an antiphlogistic sedative drug and a sterilizing disinfectant, and it relates to the patches for envelopes which have an acupressure effect or a jar stimulative effect.

[0002]

[Description of the Prior Art]As patches for envelopes of the medical application by which pressure of business is generally carried out, In the binder of a pressure sensitive adhesive sheet, a methyl salicylate and a salicylic acid glycol, A hap agent, Blaster, etc. which made the antiphlogistic sedative drug of menthol or others, etc.

Drawing selection

Drawing 4



[Translation done.]

contain are marketed, and the patches for envelopes which make the drug for the whole body contain in a binder, and medicate the inside of the body with a drug by percutaneous absorption are also developed [ various ] in recent years.

The patches for envelopes which have a permanent magnet, a far-infrared radioactive material, etc. are also known.

[0003]

[Problem to be solved by the invention]However, conventionally [ these ], in elegance, in order to make drugs mix into a binder beforehand, the drugs which there is a problem of causing deterioration of drugs, inactivation of effect, etc., and have a liquid, gel, the shape of ointment, and creamy uniform-flow kinesis had the fault that it could not use. In addition to the effect of drugs, the patches for envelopes which also have an acupressure effect or a jar stimulative effect were not known.

[0004]There is this invention in providing the patches for drugs intension envelopes which solve the fault of the above-mentioned conventional technology.

[0005]

[Means for solving problem]Namely, the patches for drugs intension envelopes of this invention consist of a pressure sensitive adhesive sheet and an exfoliation sheet, and to this pressure sensitive adhesive sheet. The drugs transmission layer is provided in the blister part which is formed of the drugs coating membrane which carries out the seal of a blister and its undersurface, and has a projection, and the drugs coating membrane bottom.

[0006]The patches for this invention drugs intension envelopes press a blister with a finger when using it, destroy drugs coating membrane, move fresh drugs to a drugs transmission layer, and apply drugs to the skin (the affected part or jar) through this drugs transmission layer. If drugs have a liquid, gel, the shape of ointment, and creamy uniform-flow kinesis, any pharmaceutical forms are available.

[0007]In the patches for this invention drugs intension envelopes, a projection refers to the protruding body with which the concave or convex projection or blister circles part provided in the blister was loaded. A projection plays the role which destroys drugs coating membrane easily and certainly, and, thereby, it also has a direct acupressure effect or a jar stimulative effect.

[0008]In the patches for this invention drugs intension envelopes, a drugs transmission layer plays the role which adjusts the dosage, valid time, etc. to the skin of drugs irrespective of the pharmaceutical form of drugs.

[0009]

[Mode for carrying out the invention]Although various publicly known things are available as a base of a pressure sensitive adhesive sheet of patches for this invention drugs intension envelopes, what has, adapts itself to elasticity of a skin surface stuck and crookedness well, can stick pliability to them, and has required tensile strength is preferred. As such a base, there are polyurethane, polyethylene, polypropylene, polyvinyl chloride, polyamide, a polyvinylidene chloride, ethylene vinyl acetate, graft-ized ethylene vinyl acetate, polybutadiene, etc., for example. As a binder, various publicly known things, such as acrylic, a crude rubber system, a synthetic rubber system, a silicone series, and a vinyl ether system, are available.

[0010]As an exfoliation sheet, various publicly known things are available, for example, there are plastic films, such as paper, polyethylene, polypropylene, polyester, polyvinyl chloride, polyamide, polyimide, and a acetate system, various complex films, etc. And on an exfoliation sheet, in order to make it easy to turn over, it is preferred to provide a slit.

[0011]a blister is fabricated by construction material of vinyl chloride resin, other synthetic resins, etc. -- a pressure sensitive adhesive sheet -- one place -- or two or more places are provided. Although what kind of form a blister may be, it is preferred that they are circular, an ellipse form, or rectangular shape. Water proofing of the rear face may be carried out by a usual method, and in order to destroy drugs coating membrane of a desired place easily and certainly, a concave or a convex projection can be provided in a crowning of a blister, or an inside of a blister part can be loaded with a protruding body.

[0012]Although what kind of form a protruding body with which an inside of a blister part is loaded may be, it is preferred a cone, a pyramid, to be a square pillar, to be a pillar, and that it is spherical. If it is the construction material which does not affect description of drugs included, and what kind of construction material may be used and a magnetic body will be used, circulation of the affected part

will be promoted and an effect of drugs and an effect better than \*\*\*\*\* will be acquired.

[0013]If a blister is pressed from the upper part in order to destroy drugs coating membrane, when a pressure gets across to a skin side with a projection provided in a blister part, an acupuncture effect or a jar stimulative effect will be produced. Said effect is enhanced and can be made to maintain for a long period of time by pressing patches for this invention drugs intension envelopes from the upper part with a supporter etc. clothes and if needed. The blister side may be formed in gathers structure in order to maintain plasticity modification of a blister.

[0014]The seal of the drugs coating membrane has been carried out to the blister undersurface. As for drugs coating membrane, films which are easy to be destroyed, such as aluminium foil, coating aluminium foil, and glassine, are adopted.

[0015]As long as a drugs transmission layer is construction material which penetrates drugs without affecting description of drugs, it may be what kind of thing, but various polymer membrane which has cotton of absorbent cotton and others various kinds, a nonwoven fabric, and fine pores, for example, or these cascade screens exist. A drugs transmission layer may be made into the shape of a pad according to the purpose, and a drugs releasing effect may be further given to a drugs transmission layer.

[0016]Drugs coating membrane may carry out the lamination of the thermoplastics, in order to improve dampproofing, corrosion resistance, etc. Alumite processing may be carried out when using aluminum for drugs coating membrane. Although lamination is available, publicly known methods, such as the usual adhesives lamination (a wet type, dry type, or heating and dissolving type lamination) and extrusion lamination, Especially extrusion lamination is preferred from not requiring processes, such as evaporation of that it is easy to make thickness of a lamination coat thin, that adhesives are unnecessary, a solvent, a diluent, etc., etc., and desiccation, etc. As thermoplastics, there are vinyl system resin, polyester system resin, cellulose ester system resin, etc. Alumite processing is also available in a publicly known method. That is, after anodizing aluminum or an aluminum alloy by using oxalic acid, chromic acid, sulfuric acid, etc. as an

electrolysis solution, a method of carrying out steam heating is usually used. processing drugs coating membrane -- in addition, the lamination of the thermoplastics may be carried out to a blister by a further above-mentioned method.

[0017]Drugs used for patches for this invention drugs intension envelopes, A drugs content raw material which may be what kind of pharmaceutical form as long as it has a liquid, gel, the shape of ointment, and creamy uniform-flow kinesis, and consists of construction material which does not affect descriptions of drugs, such as sponge arranged inside a blister part depending on a pharmaceutical form, may be made to impregnate.

[0018]As an example of drugs used for patches for this invention drugs intension envelopes, As a sterilizing disinfectant, chlorhexidine glyconate, a benzalkonium chloride, A KURORU xylenol, an acrinol, a triane tone, dequalinium chloride, There are sulfisomidine, sulfamine, nitrofurazone, boric acid, homosulfamine, bird clo carbane, etc., and as a wound part convergence therapy accelerator, As a hemostat, a zinc oxide, pyridoxine hydrochloride, tocopherol acetate, dipalmitate pyridoxine, etc., As an anti-inflammatory agent, naphazoline hydrochloride, sulfate of zinc, ephedrine hydrochloride, etc., Steroids, such as prednisolone, dexamethasone, and cortisone acetate, GURICHIRURECHIN, lysozyme chloride, etc. have chlorpheniramine maleate, diphenhydramine hydrochloride, etc. as an antihistamine.

[0019]As a local anesthesia agent, there are lidocaine, ethyl aminobenzoate, procaine hydrochloride, chloride JIPUKAIN, tetracaine hydrochloride, a chloride PARABU chill aminobenzoic acid diethyl friend NOR chill, etc.

[0020]As an external use painkilling antiphlogistic, there are a methyl salicylate, a salicylic acid glycol, 1-menthol, dl-camphor, nonylic acid WANIRIRU amide, a phellodendri cortex pulveratus, dichlofenac sodium, etc.

[0021]In addition, if it is drugs in which percutaneous absorption is possible, according to a goal of treatment, it can choose arbitrarily. Specifically Corticosteroid, a painkilling antiphlogistic, a tranquilizer, a hypnotism sedative, They are drugs of a kind of a tranquilizer, an antihypertensive, a pressure-lowering diuretic, an antibiotic, anesthetic, an antimicrobial agent, an antifungal, a vitamin

tablet, a coronary vasodilator, an antihistamine, antitussive, sex hormone, an antidepressant, a cerebral circulation improving agent, an antiemetic drug, an antitumor agent, living body medicine, etc.

[0022]These drugs can be set by the purpose and can be used as two or more independent or combination drugs.

[0023]

[Working example]Hereafter, with reference to Drawings, this invention is explained still in detail. Drawing 1 is a sectional view of one embodiment of patches for this invention drugs intension envelopes which provided a concave projection in a blister and made a drugs transmission layer the shape of a pad. Drawing 2 is a sectional view of one embodiment of patches for this invention drugs intension envelopes which loaded a blister circles part with a spherical protruding body. Drawing 3 is a sectional view of one embodiment of patches for this invention drugs intension envelopes which provided a convex projection in a blister and loaded a blister circles part with a drugs content raw material. Drawing 4 loads a blister circles part with a protruding body, and it is a sectional view of one embodiment of patches for this invention drugs intension envelopes which formed the blister side in gathers structure.

[0024](Embodiment 1) In drawing 1, 1 is a pressure sensitive adhesive sheet equipped with a blister part formed of the pad-like drugs transmission layer 2 and the blister 6 which carried out the lamination of the drugs coating membrane 5 which carried out the lamination of the thermoplastics, and the thermoplastics. The concave projection 8 is formed in the blister 6, and the slit 7 is engraved on the exfoliation sheet 4. When using these patches for envelopes, the drugs 3 are moved to the drugs transmission layer 2 by applying a finger to a hollow portion of the concave projection 8 of the blister 6, turning the concave projection 8 to the drugs transmission layer 2, pressing it, and destroying the drugs coating membrane 5 at the tip of the concave projection 8. Subsequently, from the slit 7, a portion of the drugs transmission layer 2 which contains peel-off and fresh drugs for the exfoliation sheet 4 from the pressure sensitive adhesive sheet 1 is made to contact the skin, and is used. Or after making portions of peel-off and the drugs transmission layer 2 contact the skin

and making the exfoliation sheet 4 stick from the pressure sensitive adhesive sheet 1, by destroying the drugs coating membrane 5 similarly, it may be made to move to the drugs transmission layer 2, and the drugs 3 may be used.

[0025](Embodiment 2) In drawing 2, 1 is a pressure sensitive adhesive sheet equipped with a blister part formed of the drugs coating membrane 5 and the blister 6 of aluminium foil which carried out alumite processing with the drugs transmission layer 2, and the drugs 3 and the spherical protruding body 9 are included by the drugs transmission layer upper part at a blister part. The slit 7 is engraved on an end of the exfoliation sheet 4. The drugs 3 are moved to the drugs transmission layer 2 by turning the blister 6 to the drugs transmission layer 2, pressing it, and destroying the drugs coating membrane 5 by the protruding body 9 in use of these patches for envelopes. Hereafter, it is used like Embodiment 1.

[0026](Embodiment 3) It is a pressure sensitive adhesive sheet equipped with a blister part in which 1 is formed in drawing 3 of the drugs transmission layer 2, the drugs coating membrane 5, and the blister 6, The sponge-like drugs content raw material 10 and convex projection 8' which made the drugs 3 impregnate are formed and provided in the drugs transmission layer upper part at a blister and one at a blister crowning. The slit 7 is engraved on an end of the exfoliation sheet 4. The drugs 3 are moved to the drugs transmission layer 2 by turning the blister 6 to the drugs transmission layer 2, pressing it, and destroying the drugs coating membrane 5 at the tip of convex projection 8' in use of these patches for envelopes. Hereafter, it is used like Embodiment 1.

[0027](Embodiment 4) In drawing 4, 1 is a pressure sensitive adhesive sheet equipped with a blister part formed of the drugs transmission layer 2, the drugs coating membrane 5, and the blister 6, and the protruding body 9 whose drugs 3 and tip are a little sharp is installed in the drugs transmission layer upper part toward a blister circles part from a blister crowning. The side of the blister 6 is formed in the gathers structure 10, and the slit 7 is engraved on an end of the exfoliation sheet 4. The drugs 3 are moved to the drugs transmission layer 2 by turning the blister 6 to the drugs transmission layer 2, pressing it, compressing the gathers structure 11 in use of these patches for envelopes,

and destroying the drugs coating membrane 5 by the protruding body 9. Hereafter, it is used like Embodiment 1.

[0028]

[Effect of the Invention]The effect of this invention is as follows.

(1) : which can provide fresh drugs -- the patches for drugs intension envelopes of this invention have isolated drugs with the exterior by filling up with drugs the blister circles formed of a blister and drugs coating membrane. Therefore, neither deterioration of drugs nor inactivation of effect can get up easily till use, and the fresh drugs where effect was always stabilized can be provided. This effect becomes remarkable lamination or by carrying out alumite processing about a blister (and drugs coating membrane).

[0029](2) the drugs of various pharmaceutical forms -- available: -- since drugs are sealed by the blister part as mentioned above, it is available in the liquid which was not able to be conventionally used in elegance, gel, the shape of ointment, and the drugs that have creamy Hitoshi's mobility. A drugs releasing effect can also be given by adjusting a drugs transmission layer.

[0030]An acupressure effect, a jar stimulative effect : (3) In the patches for drugs intension envelopes of this invention, By pressing a blister from the upper part, in order to destroy drugs coating membrane, When a blister changes in plasticity and the protruding body with which the concave or convex projection or the inside of a blister part provided in the blister was loaded presses a skin side, an acupressure effect or a jar stimulative effect can also be produced.

[0031]

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